Homework5

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A neuron can relay a more intense signal by
A. sending a longer action potential
B. sending an action potential that travels more quickly
C. sending more action potentials in a given amount of time
O. sending a stronger action potential
<u>重设选项</u>

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Alzheimer's disease is characterized by
A. extreme mood swings
B. loss of energy and suicidal thoughts
C. increased energy and extreme talkativeness
D. mental deterioration, memory loss, and personality changes
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In all types of chemoreceptors, rece	eptor cells develop receptor potentials in response to
A. the electrical properties of the surrourB. the addition of positively charged prot	
C. changes in the movement of the surro	ounding molecules
D. chemicals dissolved in a fluid such as重设选项	blood or saliva
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In contrast to action potentials,	receptor potentials
A. are all-or-none phenomena	
B. do not rely on changes in the mer	mbrane potential
C. vary in intensity	
O. do not require a stimulus	



	Outnumbering neurons by up to 50	to 1, which cells protect, insulate, and reinforce	e neurons?
	A. motor cells		
	B. satellite cells		
	C. supporting cells		
	D. sensory cells		
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	test. However, it is difficult to co	as much as you needed to for this exam, you stand oncentrate because your heart is racing, your stong too quickly, and your mouth is dry. Most likely, y	mach seems
	A. sympathetic division		
	B. motor nervous system		
	C. parasympathetic division		
	O. central nervous system		
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What causes the inside of a membrane to become positively charged during an action potential?
A. Negatively charged ions rush in.
B. Negatively charged ions rush out.
C. Positively charged ions rush out.
D. Positively charged ions rush in.
重设选项

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Where would we expect to find electrical synapses?

- A. within the heart
- B. within the brain
- O. between interneurons and motor neurons
- O. within the spinal cord

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 \bigcirc C. at the end of the second trimester

O. about 4 weeks after fertilization

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	Which of these carry incoming messages toward the cell be	oody of a neuron?	
	A. supporting cells		
	◯ B. axons		
	C. dendrites		
	O. actin filaments		
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	At about what point in gestation can an ultrasound exam dete	rmine the sex of the fetus?	
	A. about 20 weeks after fertilization		
	B. at the end of the first trimester		

Eating very	spicy food	stimulates	the release	of .	·

- A. glucagon
- B. endorphins
- C. insulin
- O. calcitonin

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Generally, a cell that is affected by a particular steroid hormone would be expected to have

- A. DNA sites that interact with the hormone
- B. enzymes that are activated or inactivated by the hormone's second messenger
- C. a receptor inside the cell that selectively binds the hormone
- O. a cell-surface receptor that binds the hormone

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	Hormones regulate	·	
	A. Growth, reproduction, and	metabolism are regulated by hormones.	
	B. growth, only		
	C. metabolism, only		
	O. reproduction, only		
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	running. In addition to good phy	to run long distances. You ask her what she enjoys ysical fitness, she tells you that after a run she fee y might be related to increased production of	els extra
	A. adrenalin		
	B. endorphins		
	C. releasing hormones		
	O. prolactin		
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What is meant by the term 'gestation'?

- A. pregnancy
- B. fertilization
- O. development
- O. conception

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What is the metabolic abnormality that underlies the characteristic symptoms of diabetes mellitus, such as frequent urination?

- A. an inability of the body's cells to absorb enough glucose from the blood
- B. a failure of the kidney tubules to reabsorb enough glucose from the urine
- C. a failure of the gastrointestinal epithelium to absorb enough glucose from food
- O. an inability of the body's cells to retain glucose they have absorbed from the blood

Where in a woman's reproductive tract does fertilization most often take place?
A. in the follicle
B. in the oviduct
○ C. in the ovary
O. in the uterus
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Which of the following glands secretes hormones that enable the body to respond to stress?

- A. pancreas
- B. parathyroid
- C. pineal
- D. adrenal

Which of the following hormones causes a rise in the concentration of glucose in the blood?
○ A. insulin
◯ B. calcitonin
○ C. melatonin
D. glucagon
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Which of the following is(are) mostly involved in a long-lasting response to stress?

- A. androgens
- B. adrenaline
- C. oxytocin
- O. glucocorticoids

D. defective thyroid hormone receptors in his body cells

	Which of the following types of pathogens cause sexually transmitted diseases that are generally NOT curable?
	◯ A. fungi
	○ B. insects
	© C. viruses
	O. bacteria
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	Your friend is gaining weight, is often tired, and feels cold. His thyroid hormone level is high as is the level of TSH. Your friend also has a goiter. Which of these diagnoses is the most likely for your friends condition?
	A. defective receptors for adrenaline in the anterior pituitary
	B. insufficient chlorine in his diet
	C. too much iodine in the diet

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'Н	Herd immunity' tends to fail when what percentage of	the population is NOT vaccinated?
O	A. 1%	
○ E	B. 5%	
\bigcirc	C. 10%	
© [D. 50%	
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Animals need O₂ because it _____.

A. helps animals synthesize proteins
B. is needed to deliver hemoglobin to the cells of an animal's body
C. is necessary to make CO₂

D. plays a role in obtaining energy from food

重设选项

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	A role of the lymphatic system is to	
	A. return tissue fluid to the circulatory system	
	B. produce white blood cells	
	C. produce hormones related to fighting infections	
	O. transport histamine	
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	Antibodies are	
	A. proteins consisting of four polypeptide chains	
	A. proteins consisting of four polypeptide chainsB. proteins with short carbohydrates attached	
	B. proteins with short carbohydrates attached	

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Blood pressure is lowest in
○ A. arterioles
◯ B. capillaries
C. veins
O. venules
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Breathing is regulated by _____.

A. the diaphragm and chest muscles

B. control centers in the brain stem (the pons)

C. the spinal cord

D. the circulatory system

Gas exchange requires a surface that is both	
A. durable and stiff	
■ B. thin and moist	
C. permeable to oxygen and impermeable to carbon dioxide	
O. protected within the body and connected to the circulatory system	
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Histamine
A. stimulates the release of defensive proteins
B. repels phagocytic cells
C. attracts natural killer cells
D. causes local blood vessels to dilate
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	How does a shark's cardiovascular system differ from that of a mammal?
	A. The shark's heart receives both oxygenated and deoxygenated blood
	B. The shark's heart does not directly pump oxygenated blood to the systemic tissues
	C. The shark's blood is pumped through open-ended tubes
	O. The shark's circulatory system has a pulmonary and a systemic circuit
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	It is best to receive an organ transplant from a donor who
	A. best matches your self (HLA/MHC) proteins
	○ B. does not have any allergies
	○ C. looks like you
	O. rarely consumes alcohol
	重设选项

The basic function of cytotoxic T cells is to identify and destroy invaders (in)
○ A. interstitial fluid
B. blood or lymph
○ C. inside cells
O. the immune system
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▲ 答题进度

The immune system is capable of mounting specific responses to particular microorganisms because
A. the body is able to determine which type of B and T cells to make
B. the body is able to make different antigen receptors depending on the invading microorganism
C. lymphocytes are able to change their antigen specificity as required to fight infection
D. the body contains an enormous diversity of B and T cells, each with a specific kind of antigen receptor
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The primary immune response
A. peaks about 2 days after first exposure
B. triggers the secondary immune response
C. results in the production of short-lived memory cells via clonal selection
D. results in the production of short-lived effector cells via clonal selection
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The secondary response in the B cell response occurs when memory cells bind to ______.

A. defensive proteins

B. antibodies

C. histamine

D. antigens

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Which of the following is a response of our innate defense system?
A. cell-mediated immunity
B. inflammation
○ C. active immunity
O. movement of red blood cells to the affected site
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Which of the following types of cells does HIV preferentially infect?

- A. helper T cells
- B. phagocytic cells
- C. cytotoxic T cells
- O. natural killer cells

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Which statement about antigen recognition in B and T cells is TRUE?
A. T cell antigen receptors can bind to intact freely circulating antigens
B. T cell antigen receptors can bind to intact antigens that are bound to self proteins
 C. B cell antigen receptors can bind to intact antigens that are on pathogen surfaces
O. B cell antigen receptors can bind to intact freely circulating antigens that are bound to self proteins
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Why do some viruses mutate faster than others?

- A. They usually have RNA genomes
- \bigcirc B. They are usually smaller
- C. They are usually larger
- O. They usually have DNA genomes

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Why is blood pressure higher during systole than during diastole?

A. The contraction of the heart during systole increases the blood pressure against arterial walls
B. More blood flows into the heart during systole than during diastole
C. The contraction of the heart during diastole decreases the blood pressure against arterial walls
D. The relaxation of the heart during systole increases the blood pressure against arterial walls

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